SECRET [redacted]

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FM NPIC WASHDC
TO RUEOJFA/DIA (DIAXX-2)
RUEOJFA/JCS (JRC)
RUEFHQA/HQ USAF FOR AFNICAD, AFRDRP & SAFSS
RUCSAAA/SAC (DIR)
RUWMDDA/9 SRW (DCI)
BT
S E C R E T [redacted] CITE NPIC 4048.
SUBJECT: EVALUATION OF GIANT SCALE MISSION S022

1. QUALITY SUMMARY: THE OPERATIONAL OBJECTIVE CAMERA AND THE RIGHT TECHNICAL OBJECTIVE CAMERA PROVIDE IMAGERY THAT IS TYPICAL OF PREVIOUS GIANT SCALE MISSIONS. THE LEFT TECHNICAL OBJECTIVE CAMERA APPEARS TO BE OUT OF FOCUS. THE INTERPRETATION SUITABILITY IN CLOUD FREE AREAS OF THE MISSION IS CONSIDERED FAIR TO GOOD. GROUND RESOLUTION FIGURES ARE EMPIRICAL ESTIMATES BASED ON EVALUATIONS OF SIMILAR SENSORS AND IMPLY A BAR AND A SPACE [redacted] THE FOLLOWING RESOLUTION ESTIMATES ARE MADE ON THE ORIGINAL NEGATIVE FROM CLOUD FREE IMAGERY AT OR NEAR NADIR AND WHERE THE VEHICLE IS AT ALTITUDE OVER 70,000 FEET.

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PAGE 2 READJU 71 S E C R E T
A. LEFT TECHNICAL OBJECTIVE CAMERA [redacted]
B. RIGHT TECHNICAL OBJECTIVE CAMERA
C. LEFT OPERATIONAL OBJECTIVE CAMERA
D. RIGHT OPERATIONAL OBJECTIVE CAMERA

2. CLOUDS OBSECURE OR DEGRADE 25 PERCENT OF THE IMAGERY.
3. THE MATERIAL WAS PROCESSED AT [redacted]. THE MISSION EMPLOYED THE USUAL SENSORS. THE ONLY MATERIALS EVALUATED ARE THE ORIGINAL NEGATIVES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS. THE TERRAIN OBJECTIVE CAMERA MATERIAL WAS USED TO DETERMINE THE AREAS OF 80 PERCENT CLOUD FREE PHOTOGRAPHY.
4. ANALYSIS OF THE TECHNICAL OBJECTIVE MATERIAL.
A. COMMENTS APPLICABLE TO BOTH CAMERAS:
(1) APPROXIMATELY 33 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.
(2) THERE ARE MINUS DENSITY STREAKS ASSOCIATED WITH THE PLATEN CONFIGURATION THROUGHOUT THE MISSION.
(3) RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS ARE PRESENT.
(4) FOG CAUSED BY STATIC DISCHARGES CAN BE DETECTED ALONG

PAGE 3 RUEADJU 71 S E C R E T
BOTH EDGES OF THE NEGATIVES.
(5) BANDING IS PRESENT THROUGHOUT THE MISSION.
(6) MINUS DENSITY STREAKS, PARALLEL TO THE MAJOR AXIS OF THE FILM AND 2.0 INCHES FROM EACH EDGE, CAN BE DETECTED THROUGHOUT THE MISSION.

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(7) THE DENSITY AND CONTRAST IS SATISFACTORY.

B. LEFT CAMERA (AL), S/N 64-15.

(1) THE LEFT TEOC APPEARS TO BE OUT OF FOCUS. SMEARING IS DETECTABLE IN THE HIGH OBLIQUES BETWEEN FRAMES 327 TO 477.

(2) A PLUS DENSITY STREAK, PARALLEL TO THE MAJOR AXIS OF THE FILM AND 0.4 INCH FROM THE NON-TITLED EDGE, IS PRESENT THROUGHOUT.

(3) WATER MARKS, FINGERPRINTS, AND HANDLING ABRASIONS OCCUR ON FRAMES 698 TO 704.

(4) FRAMES 481 TO 664 ARE OVER WATER.

(5) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 46/47, 326/327, AND 477/478.

(6) LAST TITLED FRAME: 704.

C. RIGHT CAMERA (AR) S/N 64-08.

(1) FRAMES 431 TO 648 ARE OVER WATER.

(2) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 48/49, 292/293, AND 430/431.

(3) THE LAST TITLED FRAME IS 648.

5. ANALYSIS OF THE OPERATIONAL OBJECTIVE CAMERA MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS:

(1) THE DENSITY AND CONTRAST OF THE NEGATIVE APPEAR SATISFACTORY.

(2) THE TIMING DOTS IMAGED WITH EACH FRAME BEGIN 0.55 INCH AFTER THE START OF SCAN AND EXTEND 0.85 INCH BEYOND THE END OF SCAN.

(3) A MYLAR TAPE SPLICE IS PRESENT BETWEEN FRAMES 522/523. SOME HANDLING MARKS ARE NOTED ON A FEW FRAMES ADJACENT TO SPLICES MADE ON THE MATERIAL.

(4) THE DATA CHAMBER IS SLIGHTLY SKEWED THROUGHOUT. THIS OBLITERATES THE MINUTE AND SECOND MARKS AT THE FAR RIGHT SIDE OF THE CLOCK.

(5) CAMERA OFF/ON OCCURS BETWEEN FRAMES 759/760. THESE FRAMES ARE SLIGHTLY OVERLAPPED. THE LAST FRAME OF A CAMERA OPERATION DISPLAYS FOGGED PATTERNS NORMALLY ASSOCIATED WITH THE CAMERA OFF.

(6) THE EVENTS COUNTER HAS A PLUS 8 BIAS TO THE TITLED FRAME NUMBERS.

(7) THE STRETCH MARKS, PRESENT ON THE MATERIAL, ARE FAINTLY IMAGED.

B. THE LEFT OPERATIONAL OBJECTIVE CAMERA (CL), S/N, 4005:

(1) THE FIRST 1.0 INCH OF SCAN IS DEGRADED AND APPEARS OUT OF FOCUS. THE FIRST 0.25 INCH OF THIS IS THE MOST SEVERE.

(2) THERE ARE SEVERAL FAINT MINUS DENSITY STREAKS, PARALLEL TO THE MAJOR AXIS, THROUGHOUT.

(3) THE LAST TITLED FRAME FROM THE LEFT OOC IS 882.

C. THE RIGHT OPERATIONAL OBJECTIVE CAMERA (CR), S/N 4032:

(1) THE FIRST 0.75 INCH OF SCAN IS DEGRADED AND APPEARS OUT OF FOCUS. THE FIRST 0.20 INCH OF THIS IS THE MOST SEVERE.

(2) THE TIME TRACK IS NOT IMAGED FOR FRAME 001, THE FIRST 8.20 INCHES OF FRAME 002, FRAME 760 AND THE FIRST 7.85 INCHES OF FRAME 861.

(3) SEVERAL EMULSION SCRATCHES, WAVERING SLIGHTLY, ARE PRESENT WITHIN 0.80 INCH OF THE NON-TITLED EDGE THROUGHOUT.

(4) THE LAST TITLED FRAME FROM THE RIGHT OOC IS 883.

6. THE MISSION RECORDER SYSTEM DATA TO FILM CORRELATION REPORT WILL BE TEMPORARILY DISCONTINUED UNTIL THE "MISSION EPHEMERIS" IS TRANSMITTED ON FUTURE MISSIONS. THE EPHEMERIS HAS BEEN DEVELOPED IN A COORDINATED EFFORT BETWEEN NPIC AND THE 9TH SRW AND IS INTENDED TO SPECIFICALLY SATISFY NPIC AND DIA REQUIREMENTS. NPIC EXPECTS THAT THE NEW LISTING WILL BE INCORPORATED ON AN OPERATIONAL MISSION PRIOR TO 8 JULY. THE DATA PRESENTLY BEING RECEIVED IS THE SENSOR STATUS UTILIZATION HISTORY (SSUH). THE SSUH CONTENT AND FORMAT IS NOT SATISFACTORY AND IT IS ONLY SERVING A TEMPORARY "STOP GAP" PURPOSE. BECAUSE OF THIS AND BECAUSE OF THE TIME CONSUMING PROCEDURE REQUIRED TO CORRELATE THE FILM TO THE DATA,
THE CORRELATION WILL NOT BE REPORTED ON A ROUTINE BASIS. SUFFICIENT PROOF HAS BEEN PRESENTED ON PAST MISSION REPORTS TO SHOW THAT AN EXACT CORRELATION BETWEEN THE SSUH AND THE FILM CANNOT BE MADE, ALTHOUGH THE APPROXIMATE CORRELATION IN SOME CASES HAS BEEN SATISFACTORY. IT HAS ALSO BEEN PROVEN TO OUR SATISFACTION THAT THE CLOCKS IN THE FILM DATA BLOCKS ARE UNRELIABLE FOR CORRELATION.

IF AN SSUH TO FILM CORRELATION IS REQUIRED ON THIS OR FUTURE MISSIONS, PHOTOGRAPHIC PLOTS WILL BE USED TO DETERMINE ACCURATE GEOGRAPHIC COORDINATES. THESE COORDINATES WILL BE USED TO DETERMINE VEHICLE ATTITUDE FROM THE MRS (SSUH) DATA.

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END OF MESSAGE